

Contract # 059080

STATE OF UTAH CONTRACT

1. CONTRACTING PARTIES: This contract is between the following agency of the State of Utah:
Department: TRANSPORTATION Agency Code: 810 Division: UDOT - CENTRAL SHOPS, referred to as (STATE), and the following CONTRACTOR:

H & K TRUCK EQUIPMENT, INC.

Name
1103 S. 700 W.
Address
SALT LAKE CITY UT 84104
City State Zip

LEGAL STATUS OF CONTRACTOR

- ☐ Sole Proprietor
☐ Non-Profit Corporation
☒ For-Profit Corporation
☐ Partnership
☐ Government Agency

Contact Person KEVIN SORENSEN Phone #801 886-3000 Email ksorensen@hktruckequipment.com
Federal Tax ID# 870335374 Vendor #00938A Commodity Code #76566000000

2. GENERAL PURPOSE OF CONTRACT: The general purpose of this contract is to provide:
FOR COMBINATION LIQUID/GRANULAR, SKID MOUNTED APPLICATORS FOR USE IN HIGHWAY SNOW REMOVAL OPERATIONS.
3. PROCUREMENT: This contract is entered into as a result of the procurement process on RX# 810 56300000006, FY2005, Bid#GL5003.
4. CONTRACT PERIOD: Effective date: 09/27/04 Termination date: 09/27/06 unless terminated early or extended in accordance with the terms and conditions of this contract. Renewal options (if any): 3- (1) ONE YEAR RENEWALS
5. CONTRACT COSTS: CONTRACTOR will be paid a maximum of \$REQUIREMENTS CONTRACT for costs authorized by this contract.
6. ATTACHMENT A: Division of Purchasing's Standard Terms and Conditions
ATTACHMENT B: Scope of Work
ATTACHMENT C: Pricing
Any conflicts between Attachment A and other Attachments will be resolved in favor of Attachment A.
7. DOCUMENTS INCORPORATED INTO THIS CONTRACT BY REFERENCE BUT NOT ATTACHED:
- All other governmental laws, regulations, or actions applicable to the goods and/or services authorized by this contract.
 - Utah State Procurement Code, Procurement Rules, and CONTRACTOR'S response to Bid #GL5003 dated 09/21/04.

IN WITNESS WHEREOF, the parties sign and cause this contract to be executed.

CONTRACTOR

STATE

Paul Rottmann 10/19/04
Contractor's signature Date

David Miles OCT 14 2004
David Miles: Agency's signature Date

DAVID C. HEWZE, GEN. MANAGER
Type or Print Name and Title

DPT AUG 11 2005
Director, Division of Purchasing Date

PROCESSED BY AUG 15 2005
DIVISION OF FINANCE
Director, Division of Finance

Paul Rottmann	801-965-4078	801-965-4073	prottmann@utah.gov
Agency Contact Person	Telephone Number	Fax Number	Email

(Revision 09/30/2003)

ATTACHMENT A: STANDARD TERMS AND CONDITIONS

1. **AUTHORITY:** Provisions of this contract are pursuant to the authority set forth in 63-56, Utah Code Annotated, 1953, as amended, Utah State Procurement Rules (Utah Administrative Code Section R33), and related statutes which permit the State to purchase certain specified services, and other approved purchases for the State.
2. **CONTRACT JURISDICTION, CHOICE OF LAW, AND VENUE:** The provisions of this contract shall be governed by the laws of the State of Utah. The parties will submit to the jurisdiction of the courts of the State of Utah for any dispute arising out of this Contract or the breach thereof. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.
3. **LAWS AND REGULATIONS:** Any and all supplies, services and equipment furnished will comply fully with all applicable Federal and State laws and regulations.
4. **RECORDS ADMINISTRATION:** The Contractor shall maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this contract. These records shall be retained by the Contractor for at least four years after the contract terminates, or until all audits initiated within the four years, have been completed, whichever is later. The Contractor agrees to allow State and Federal auditors, and State Agency Staff, access to all the records to this contract, for audit and inspection, and monitoring of services. Such access will be during normal business hours, or by appointment.
5. **CONFLICT OF INTEREST:** Contractor represents that none of its officers or employees are officers or employees of the State of Utah, unless disclosure has been made in accordance with 67-16-8, Utah Code Annotated, 1953, as amended.
6. **CONTRACTOR, AN INDEPENDENT CONTRACTOR:** The Contractor shall be an independent contractor, and as such, shall have no authorization, express or implied, to bind the State to any agreements, settlements, liability, or understanding whatsoever, and agrees not to perform any acts as agent for the State, except as herein expressly set forth. Compensation stated herein shall be the total amount payable to the Contractor by the State. The Contractor shall be responsible for the payment of all income tax and social security amounts due as a result of payments received from the State for these contract services. Persons employed by the State and acting under the direction of the State shall not be deemed to be employees or agents of the Contractor.
7. **INDEMNITY CLAUSE:** The Contractor agrees to indemnify, save harmless, and release the State OF UTAH, and all its officers, agents, volunteers, and employees from and against any and all loss, damages, injury, liability, suits, and proceedings arising out of the performance of this contract which are caused in whole or in part by the negligence of the Contractor's officers, agents, volunteers, or employees, but not for claims arising from the State's sole negligence.
8. **EQUAL OPPORTUNITY CLAUSE:** The Contractor agrees to abide by the provisions of Title VI and VII of the Civil Rights Act of 1964 (42USC 2000e) which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. Also, the Contractor agrees to abide by Utah's Executive Order, dated March 17, 1993, which prohibits sexual harassment in the work place.
9. **SEPARABILITY CLAUSE:** A declaration by any court, or any other binding legal source, that any provision of this contract is illegal and void shall not affect the legality and enforceability of any other provision of this contract, unless the provisions are mutually dependent.
10. **RENEGOTIATION OR MODIFICATIONS:** This contract may be amended, modified, or supplemented only by written amendment to the contract, executed by the same persons or by persons holding the same position as persons who signed the original agreement on behalf of the parties hereto, and attached to the original signed copy of the contract.
11. **DEBARMENT:** The Contractor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract), by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by the State. The Contractor must notify the State Director of Purchasing within 30 days if debarred by any governmental entity during the Contract period.
12. **TERMINATION:** Unless otherwise stated in the Special Terms and Conditions, this contract may be terminated, with cause by either party, in advance of the specified termination date, upon written notice being given by the other party. The party in violation will be given ten (10) working days after notification to correct and cease the violations, after which the contract may be terminated for cause. This contract may be terminated without cause, in advance of the specified expiration date, by either party, upon 90 days prior written notice being given the other party. On termination of this contract, all accounts and payments will be processed according to the financial arrangements set forth herein for approved services rendered to date of termination.
13. **NONAPPROPRIATION OF FUNDS:** The Contractor acknowledges that the State cannot contract for the payment of funds not yet appropriated by the Utah State Legislature. If funding to the State is reduced due to an order by the Legislature or the Governor, or is required by State law, or if federal funding (when applicable) is not provided, the State may terminate this contract or proportionately reduce the services and purchase obligations and the amount due from the State upon 30 days written notice. In the case that funds are not appropriated or are reduced, the State will reimburse Contractor for products delivered or services performed through the date of cancellation or reduction, and the State will not be liable for any future commitments, penalties, or liquidated damages.
14. **SALES TAX EXEMPTION:** The State of Utah's sales and use tax exemption number is E33399. The tangible personal property or services being purchased are being paid from State funds and used in the exercise of that entity's essential functions. If the items being purchased are construction materials, they will be converted into real property by employees of this government entity, unless otherwise stated in the contract.
15. **WARRANTY:** The contractor agrees to warrant and assume responsibility for all products (including hardware, firmware, and/or software products) that it licenses, contracts, or sells to the State of Utah under this contract for a period of one year, unless otherwise specified and mutually agreed upon elsewhere in this contract. The contractor (seller) acknowledges that all warranties granted to the buyer by the Uniform Commercial Code of the State of Utah apply to this contract. Product liability disclaimers and/or warranty disclaimers from the seller are not applicable to this contract unless otherwise specified and mutually agreed upon elsewhere in this contract. In general, the contractor warrants that: (1) the product will do what the salesperson said it would do, (2) the product will live up to all specific claims that the manufacturer makes in their advertisements, (3) the product will be suitable for the ordinary purposes for which such product is used, (4) the product will be suitable

for any special purposes that the State has relied on the contractor's skill or judgment to consider when it advised the State about the product, (5) the product has been properly designed and manufactured, and (6) the product is free of significant defects or unusual problems about which the State has not been warned. Remedies available to the State include the following: The contractor will repair or replace (at no charge to the State) the product whose nonconformance is discovered and made known to the contractor in writing. If the repaired and/or replaced product proves to be inadequate, or fails of its essential purpose, the contractor will refund the full amount of any payments that have been made. Nothing in this warranty will be construed to limit any rights or remedies the State of Utah may otherwise have under this contract.

16. **PUBLIC INFORMATION:** Contractor agrees that the contract will be a public document, and may be available for distribution and Contractor gives the State express permission to make copies of the contract and/or of the response to the solicitation in accordance with the State of Utah Government Records Access and Management Act. The permission to make copies as noted will take precedence over any statements of confidentiality, proprietary information, copyright information, or similar notation.
17. **DELIVERY:** Unless otherwise specified in this contract, all deliveries will be F.O.B. destination with all transportation and handling charges paid by the Contractor. Responsibility and liability for loss or damage will remain with Contractor until final inspection and acceptance when responsibility will pass to the State except as to latent defects, fraud and Contractor's warranty obligations.
18. **ORDERING AND INVOICING:** All orders will be shipped promptly in accordance with the delivery schedule. The Contractor will promptly submit invoices (within 30 days of shipment or delivery of services) to the State. The State contract number and/or the agency purchase order number shall be listed on all invoices, freight tickets, and correspondence relating to the contract order. The prices paid by the State will be those prices listed in the contract. The State has the right to adjust or return any invoice reflecting incorrect pricing.
19. **PAYMENT:** Payments are normally made within 30 days following the date the order is delivered or the date a correct invoice is received, whichever is later. All payments to the Contractor will be remitted by mail unless paid by the State of Utah's Purchasing Card.
20. **PATENTS, COPYRIGHTS, ETC.:** The Contractor will release, indemnify and hold the State, its officers, agents and employees harmless from liability of any kind or nature, including the Contractor's use of any copyrighted or un-copyrighted composition, secret process, patented or un-patented invention, article or appliance furnished or used in the performance of this contract.
21. **ASSIGNMENT/SUBCONTRACT:** Contractor will not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this contract, in whole or in part, without the prior written approval of the State.
22. **DEFAULT AND REMEDIES:** Any of the following events will constitute cause for the State to declare Contractor in default of the contract: 1. Nonperformance of contractual requirements; 2. A material breach of any term or condition of this contract. The State will issue a written notice of default providing a ten (10) day period in which Contractor will have an opportunity to cure. Time allowed for cure will not diminish or eliminate Contractor's liability for damages. If the default remains, after Contractor has been provided the opportunity to cure, the State may do one or more of the following: 1. Exercise any remedy provided by law; 2. Terminate this contract and any related contracts or portions thereof; 3. Impose liquidated damages, if liquidated damages are listed in the contract; 4. Suspend Contractor from receiving future solicitations.
23. **FORCE MAJEURE:** Neither party to this contract will be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. The State may terminate this contract after determining such delay or default will reasonably prevent successful performance of the contract.
24. **PROCUREMENT ETHICS:** The Contractor understands that a person who is interested in any way in the sale of any supplies, services, construction, or insurance to the State of Utah is violating the law if the person gives or offers to give any compensation, gratuity, contribution, loan or reward, or any promise thereof to any person acting as a procurement officer on behalf of the State, or who in any official capacity participates in the procurement of such supplies, services, construction, or insurance, whether it is given for their own use or for the use or benefit of any other person or organization (63-56-73, Utah Code Annotated, 1953, as amended).
25. **CONFLICT OF TERMS:** Contractor Terms and Conditions that apply must be in writing and attached to the contract. No other Terms and Conditions will apply to this contract including terms listed or referenced on a Contractor's website, terms listed in a Contractor quotation/sales order, etc. In the event of any conflict in the contract terms and conditions, the order of precedence shall be: 1. State Standard Terms and Conditions; 2. State Special Terms and Conditions; 3. Contractor Terms and Conditions.

(Revision date: Nov 21, 2003)



STATE OF UTAH D.O.T.
August 18, 2004

SPECIFICATIONS FOR COMBINATION LIQUID/GRANULAR APPLICATOR, SKID MOUNTED, FOR USE IN HIGHWAY OPERATIONS, SNOW REMOVAL.

Contractor: H&K Truck Equipment, Inc.

Make/Model to be provided: Monroe MV-96-84-62,304,12/10GA Combo Units _____

PART I, GENERAL SPECIFICATIONS

The combination liquid anti-icing/deicing applicator must be new units, current model year or newer model. The equipment shall meet the following minimum specifications but, is not limited as to features furnished by the manufacturer. The equipment shall have all standard features. The equipment shall be delivered assembled, serviced, tested and ready to operate.

Equipment furnished to the State of Utah must meet current state and federal safety regulations.

It is the intent of this specification to describe a Combination Liquid Anti-Icing/De-icing applicator capable of spreading an aggregate traction material and a liquid de-icing product individually and simultaneously. The units will consist of a stainless steel V-Box Spreader with liquid storage in saddle tanks mounted on the sides, along with tanks in front of the box that will perform liquid anti-icing applications, spread aggregate, or pre-treat aggregate with liquids at the spinner chute. The units will have an "on-board" synchronized control system that will provide accurate and synchronized spreading of aggregate materials (such as salt/sand) and/or liquids such as magnesium chloride or calcium chloride, controlling the relative amounts of both materials. The automatic sprayer control system will maintain a desired application rate per lane mile when the ground speed is changed. The system will automatically shut off when the vehicle is stopped. The units will be mounted on a 54,000 GVW tandem axle truck in a standard 14 foot dump box. Materials used will be at least minimum standards and of quality used commercially, conforming to current engineering and manufacturing practices. All components of the skid mounted, applicators will be of proper design to safely withstand maximum stress imposed. Any attachments, accessories, tools or other components normally furnished as standard equipment and necessary to the efficient operation of the skid mount, combination spreader will be furnished. The skid mounted, combination spreaders will meet or exceed the following specifications.

All warranty periods will start after equipment has been put into service. Basic warranties will include agreement to allow all U.D.O.T. shops to be approved, to complete "In-house" warranty repairs, in U.D.O.T. shops. The warranty must include parts, and labor reimbursement.



PART II, DETAIL SPECIFICATIONS

SKID

Units must include the tank, pumping mechanism, and spray-bar, mounted on an integral skid. The skid will have provision for mounting in the bed of a standard dump body, including (2) ratcheting nylon strap binders attached with 3/8" grade 8 anchor chain. Six usable feet Kinedyne #4004 strap with "D ring to be supplied with each binder.

The entire frame platform will be made of 304-grade stainless steel. The tanks will mount a full-framed structure that supports the V-box spreader and polyethylene tanks. The skid must be locked in place at the rear by using the tailgate latch. (1.5" pins)

The front tank shall be directly mounted to the main slip-in skid frame. The Slip-in frame must be constructed of 3/16" x 2" x 8" formed 304 stainless steel channel frame and 4" x 2" 304 stainless steel tubing for the front header and rear lifting eyes. There must be a minimum of four (4) lifting eyes to remove the tank and spreader from the truck and load to storage racks. The four lifting eyes will be constructed of 2" x 4" 304 stainless steel D-rings on the top of the tubing for lifting the unit from the dump body bed. The skid assembly is to include a self actuating leg assembly that consists of 3" square tube that is adjustable in height by means of stainless steel locking pins. Pins shall extend completely through the legs. To include front adjustable guide rollers for easy loading and unloading.

TANK

The tanks shall be a minimum of 1300 gallons. Tanks configuration to be of manufacture design and weight distribution to be equal. The tanks must be constructed of a linear polyethylene FDA approve resins. The tanks must be compatible with all de-icer materials currently available and carry a three(3) year manufacture's warranty.

The tanks must be interconnected from the bottom of the tanks forward to draw the complete amount of liquid without tilting the dump body. The forward tank shall have a 16" inspection port. All the tanks must draw equally to the pump, not creating any vacuum locks or venting problems when filling the tanks. The tanks must have a mechanical gauge with an electrical low level indicator light and alarm in the cab. The fill location will be at the rear of the unit and fill all tanks simultaneously.

Products will be transferred from the tank by a hydraulically driven stainless steel pump



rated at 210 U.S. Gallons/Minute minimums. (No PVC pipe or couplers will be used anywhere in the system).

The unit will be capable of self loading and unloading the liquid products from the rear of the unit. There will be two indicator lights at the rear to the unit to indicate when the unit is almost and completely full. The yellow light will indicate that the unit is within six (6) inches of being full from the top. The red will tell the operator to turn the pump load operations off when full. This will all be done from the rear of the unit at the fill station.

A fixed 8 foot spray bar will house nozzles to spray a 12-foot path from a single boom and up to a 36-foot path with two additional booms. The main spray boom must have brass straight stream nozzles. The side spray booms will use straight stream nozzles to deliver product to the right and left lanes while maintaining accurate application rates. Spray pattern out of and up to, not less than 12 feet to each side of the vehicle. The pre-wet system boom must have a spray pattern with four (4) nozzles covering the aggregate as it is discharged to the sander chute.

Pre-wet

Must be hydraulically driven, 16 gallons per minute gear type pump with an adjustable internal bypass. System to include a turbinless pre-wet flow-meter capable of reading rates of .1 to 16 g.p.m. The pre-wet and anti-icing system will be monitored by the flow meter with the entire pre-wet system. The system will be a part of the main pump with no auxiliary motors or pumps allowed.

To have a 2" minimum diameter steel or poly load line with a shut off-off valve and quick disconnects, fittings must include both male and female. The load line must fill all tanks simultaneously.

The tank outlet will consist of a 2" minimum diameter outlet, with an easy clean out suction strainer between the tank outlet and the pump inlet.

Console

The control console will be installed locally. The control console will retrofit to existing hydraulics for the operations of sand and liquid applications. D.O.T. will provide the trucks for the Combination Aggregate/Liquid Applicator. It is the responsibility of the successful bidder to make arrangements to have the Combination Aggregate/ Liquid Applicator installed and tested before delivery.



The control console must have backlit DOT Matrix switches, knobs, and a 28 character backlit display screen that will simultaneously display the desired application rates of the granular and liquid material. The display screen must be operator set able and show distance traveled, total granular, pre-wet liquid, and anti-ice liquid volumes for the event and season, speed, temperature input from sensor, pre-wet liquid, and anti-ice liquid material. The controller will display a minimum of four products, and ten application rates or be able to identify rate if required.

Controls

Consoles must have a built in ground speed simulator. To provide any test simulation when the vehicle is in the shop and not moving. This system shall provide a trouble-shooting guide.

The system must maintain a selected application rate regardless of travel speed, spread width, engine speed, and hydraulic flow variations.

The system must have the capability to apply products through the range of 10 to 60 gallons per lane mile at speeds from 05 to 50 MPH to any combination of lanes.

Control Console

Operator controls will include:

- Power on/off switch.
- Spray bar on/off switch (master).
- 12' Main-bar select switch.
- 41' Left wing select switch.
- 41' Right wing select switch.
- An application rate adjustment up/down switch.
- Self-illuminated display.
- An application rate in gal/lane mile.

Control console must have enough memory capable of recording the following information and display as current run totals and seasonal totals:

Miles, tons of each granular product, gallons of pre-wet material and gallons of anti-ice material spread.

Miles, tons of each granular product, gallons of pre-wet material and gallons of anti-ice material spread in blast mode.

All harnessing must be color coded and utilize proper gauge size for current draw. Wire type to be SLX grade and each wire shall be imprinted with its function at six inch intervals. All harnessing must be protected



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by corrugated loom. Amp series 6 sealed circular plastic connectors with gold plated pins and strain relief clamps shall be used to connect harnessing. All CPC connectors outside the truck must be weatherized with potting compound.

The controls must be a Raven DCS 710 or Dickey John Control Point or equal.

The controls shall be used in a combination aggregate/liquid operation but have the capability to remove the combination Applicator and install a Salt/Sander Pre-wetting spreader or a dedicated liquid applicator and use the same controls for all systems.

The booms of the spray bars must be adjustable in height.

Nozzles will maintain an accurate, non-atomized distribution throughout the range of application rates and travel speeds.

Spreader

The size of the V-Box combined with liquid tanks will have a capacity of a minimum of 1300 gallons and fit a standard 14-foot dump body of 84" inches wide. The V-Box will hold a minimum of 6.5 cubic yards of aggregate struck.

Construction shall be 12 gauge hi-grade 304 stainless steel with a double crimped top edge forming a 2" section for greater rigidity. The hopper length shall be not less than 8' with two feet of longitudinal overhung for supporting the spinner assembly. The hopper shall not be more than 84" outside width with the overall height approximately 60" to achieve 6.5 cubic yards. No part of the spreader hopper or liquid tanks are to extend beyond the rear edge of the dump body. Shall include spill guards on each side and spill guards on front and rear approximately 19" above top.

The body sides must have not less than a 45-degree pitch. The body longitudinal will be formed 10 gauge 304 stainless steel. The cross channel will be formed 10 gauge 304 stainless steel that ties the lower edge of the longitudinal to each support. A 6" x 9.0 lb. flange carbon steel "H" beam will be elevated 18", approximately, above the top edge of the hopper, thus providing a longitudinal brace and hinge point for the top screens. There will be a 2"x 2" angle iron welded from the H beam to each side for additional support.

The body and conveyor longitudinal shall be electrically welded into a rugged solid unit. A screw



type jack will be self-locking. A 12"x 18" 10 gauge 304 stainless steel feed-gate and ruler will be provided at the rear of the hopper to allow for accurate discharge. There will be a 12-gauge 304 stainless steel formed side supports that extend the full side angle height spaced on approximately 2' centers.

Conveyer

The conveyer system shall be of the chain bar flight running longitudinally with the body feeding material to the feed-gate opening. The overall conveyer width must be not less than 24" to protect the chain link strands, the top edge of the longitudinals shall be formed down over the strands exposing only the drag bar to the material. The conveyer floor shall be of flat design and manufactured to replaceable 3/16" carbon steel and roll over edges. The conveyer floor must be supported on 12 gauge 304 stainless cross angles spaced approximately 2" apart.

A heavy duty idler adjustment assembly shall provide approximately 3" of adjustment for proper conveyer chain conveyor chain tension. The adjustment of the chain idler shall be made at the rear of the spreader near the chute. The idler adjustment shall run from the rear to the front idler adjustment. Adjustments shall be made without removing the liquid saddle tank. Grease lines must extend to the rear of the sander. To have rubber wipers in front and rear of conveyer.

Chain

The conveyer chain must be heat treated, 2.25" pitch self-cleaning pintle type with 7/16" pins and a tensile strength of 21,000 pounds. The chain shall utilize a .25" x 1.5" and a 18.75" crossbar welded on both the top and the bottom to every other chain link making an overall width of twenty-two (22) inches. The crossbar shall be positioned on approximately 4.5" centers.

Spinner
Assembly

The spinner disc shall be 18" minimum in diameter of abrasive resistant steel and have six formed fins. The disc will be mounted on a cast iron replaceable hub connected directly to the hydraulic motor. The material shall be guided from the conveyor on the spinner disc by means of an adjustable 10 gauge stainless steel deflector. The deflector will control the spread pattern from left to right by controlling where the material drops on the spinner. The entire spinner chute assembly shall be manufactured of 304 stainless steel wear resistant material and adjustable in height. To have four(4) spinner baffles, one front fixed and two sides and one rear adjustable without the need of tools.



Power

The conveyor chain shall be driven through the worm drive gear box by a low speed, high-torque "orbital types" hydraulic motor. The motor shall be directly coupled to the gear box. The spinner disc will be driven by an independent low speed high-torque "orbital type" hydraulic motor. This motor shall be directly coupled to the spinner hub eliminating any extra extension shaft or bearings. (Or pre-approved equal).

Top

The top screens must be constructed of (3/8") diameter steel rod inner laced through screen (1/4" x 1-1/2") flat bar forming an open grating size approximately (2-1/2" x 2-1/2"). Additional (3/8") rod must be installed on the top of the flat iron section of the screens to form approximately (2-1/2" x 5") openings, and must form a stacked double rod structure on every other horizontal rod section. The mesh will be reinforced by using (2"x3/8") angle iron with the edge supports reinforced with (3/8") flat bar. Minimum of three hinges must be placed over the center support that the screens may be opened fully from either side. Screens to be high pitch design with an 18" height above hopper screen, with adequate supports. To be discussed at paper pilot.

Paint

All stainless steel metal shall be left unpainted. Carbon steel components shall be chemically cleaned or sandblasted. Powder coat or enamel painted accepted in accordance with paint manufacture specifications.

Lights

To have (3) light ID cluster shielded, Two (2) 6" stop, turn, tail lights shielded, two (2) red clearance lights shielded and four (4) red reflectors. Lights must be on rubber mounted bases, bracket not to be metal unless stainless steel.

Light bar

Light bar shall be a 15" Federal Signals Target-Teck, catalog # 450112-02. It shall have a stainless steel air foil welded above light bar. (To be discussed at paper pilot).

Wiring

Wiring from lights to junction box at lower left rear must be Betts snap seal system. Wiring to be clamped to prevent chaffing, with no sharp bends, with moisture proof connections. All wiring must be jacketed cable, individual wires ran through tubing is unacceptable. No splices in wires. To have seven (7) foot, seven (7) conductor, 14 gauge minimum, corrosion resistant molded type cable with molded plug, from junction box to truck chassis. To be "Bob-Tail" product. Phone (403) 2720318.



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PART III PARTS AND SERVICE

The Contractor's Service center shall be located in the Salt Lake City area

PART IV INSPECTION

Contractor provides, at no additional cost to State, for pre-build conference at U.D.O.T. headquarters (4501 So 2700 West S.L.C, UT 84119) Pre-delivery inspection for two (2) U.D.O.T personal at the factory, when unit is 85% complete. Travel arrangements and accommodations are included in the bid price.

PART V, TRAINING

The units will be complete and ready for operation when delivered. A minimum of one day of training will be provided with each unit when delivered.

PART VI, DELIVERY

Delivery must include the following:

- dealers' invoice
- a copy of a warranty
- 2 ea operator's manual.
- 2 ea complete sets of manuals including:
Parts list, repair manual.

Cost of these manuals is to be included in bid price.

PART VII, OPTIONS

7.1 Price for stainless steel liquid tanks vs poly.

7.2 Weight difference stainless steel v. poly. Is 650 lbs.

7.3 Dual 7" diameter variable pitch auger conveying system instead of a typical chain. Augers must be counter rotating to prevent bridging of material.

All documentation shall show owner/purchaser as STATE OF UTAH DOT

Invoices will not be approved for payment until all documentation and manuals have been received.

Delivery is to be F.O.B. Utah Dept. of Transportation, Central Shops, 4501 South 2700 West, Salt Lake City, Utah 84114-5730.

ATTACHMENT C: PRICING
Combination Liquid/Granular Applicator, Skid Mounted

059080

1. Combination Applicator as per specifications: \$27,775.00
2. Option #1: Stainless steel liquid tanks instead of poly. +650 lbs. Add; \$6,334.00
3. Option #2: To have 1,500 gallon, 304 stainless steel tanks, 8.5 minimum cubic yard, struck 304 stainless steel spreader to mount in a 16 foot long by 84" wide dump body. Includes conveyor chain. Add; \$5,437.00
4. Option #3: Dual 7" diameter, variable pitch auger conveyor system instead of the traditional chain drive. The augers must be counter-rotating to help prevent bridging of materials.

4.1 Total cost of 14 foot long dump body; \$29,775.00.

4.2 Total cost of 16 foot long dump body; \$35,212.00.